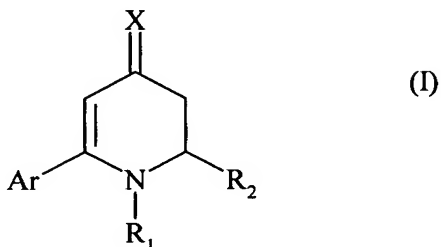


## LISTING OF CLAIMS

CLAIMS 1-9 (CANCELED)

10. (NEW) A compound of formula (I):



wherein:

- 5      ➤ R<sub>1</sub> represents hydrogen, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl in which the alkyl moiety may be linear or branched, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl, linear or branched (C<sub>1</sub>-C<sub>6</sub>)acyl, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl in which the alkoxy moiety may be linear or branched, or trifluoroacetyl,
- R<sub>2</sub> represents linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl,
- 10    ➤ X represents oxygen or NOR<sub>3</sub> wherein:
  - \* R<sub>3</sub> represents hydrogen, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl optionally substituted by one or more identical or different groups selected from hydroxy, amino (optionally substituted by one or two linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl groups) and linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkoxy,
- 15    ➤ Ar represents aryl or heteroaryl,

it being understood that:

aryl is a phenyl, biphenyl, naphthyl or tetrahydronaphthyl group, each of those groups being optionally substituted by one or more identical or different substituents selected from halogen, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trihalomethyl, nitro and amino (optionally substituted by one or more linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl groups),

and heteroaryl is an aromatic, monocyclic or bicyclic heterocycle that has from 5 to 12 ring atoms, and which optionally contains in the ring system, two or three hetero atoms selected from oxygen, nitrogen and sulphur, it being understood that heteroaryl may be optionally substituted by one or more identical or different substituents selected from halogen, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy, linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkoxy, trihalomethyl, nitro and amino (optionally substituted by one or more linear or branched (C<sub>1</sub>-C<sub>6</sub>)alkyl groups).

11. (NEW) A compound of Claim 10, wherein X represents oxygen.
12. (NEW) A compound of Claim 10, wherein R<sub>1</sub> represents hydrogen or linear or branched (C<sub>1</sub>-C<sub>6</sub>) alkoxycarbonyl.
13. (NEW) A compound of Claim 10, wherein Ar represents an optionally substituted phenyl.
14. (NEW) A compound of Claim 10, wherein Ar represents a substituted phenyl.
15. (NEW) A compound of Claim 10, wherein Ar represents an optionally substituted thienyl or an optionally substituted pyridyl.
16. (NEW) A compound of Claim 10 which is selected from:
- tert-butyl 2-methyl-4-oxo-6-(2-thienyl)-3,4-dihydro-1(2H)-pyridinecarboxylate,
  - 2-methyl-6-(2-thienyl)-2,3-dihydro-4(1H)-pyridone,
  - tert-butyl 2-methyl-4-oxo-6-phenyl-3,4-dihydro-1(2H)-pyridinecarboxylate ,
  - 2-methyl-6-phenyl-2,3-dihydro-4(1H)-pyridone,

- 5
- tert-butyl 6-(3-chlorophenyl)-2-methyl-4-oxo-3,4-dihydro-1(2*H*)-pyridine-carboxylate,
  - 6-(3-chlorophenyl)-2-methyl-2,3-dihydro-4(1*H*)-pyridone,
  - tert-butyl 6-(6-chloro-3-pyridyl)-2-methyl-4-oxo-3,4-dihydro-1(2*H*)-pyridine-carboxylate and
  - 6-(6-chloro-3-pyridyl)-2-methyl-2,3-dihydro-4(1*H*)-pyridone.

10      **17. (NEW)** A method for treating a living animal body, including a human, afflicted with a disorder of memory and cognition comprising the step of administering to the living animal body, including a human, an amount of a compound of Claim 10, which is effective for alleviation of the disorder.

**18. (NEW)** A pharmaceutical composition useful in treating memory and cognition disorders comprising as active principle an effective amount of a compound of Claim 10, together with are as more pharmaceutically acceptable excipients or vehicles.